

| Ref # | Hits | Search Query  | DBs                                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| S1    | 4    | (OFDM or (orthogonal near3 frequency)) same (inactive with carrier\$1)                                      | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2005/03/03 13:07 |
| S2    | 59   | (OFDM or (orthogonal near3 frequency)) and ((in\$1active or unuse\$1) with carrier\$1)                      | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 12:54 |
| S3    | 30   | (OFDM or (orthogonal near3 frequency)) and ((in\$1active or unuse\$1) with bin\$1)                          | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 12:33 |
| S4    | 17   | (OFDM or (orthogonal near3 frequency)) and ((inoperative or idle) with carrier\$1)                          | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 14:38 |
| S5    | 350  | (OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 15:47 |
| S6    | 7    | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/204.ccls. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 15:13 |
| S7    | 0    | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/205.ccls. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 15:13 |
| S8    | 18   | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/208.ccls. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 15:13 |
| S9    | 22   | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/210.ccls. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 15:13 |
| S10   | 0    | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/281.ccls. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 15:13 |
| S11   | 5    | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/344.ccls. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 15:13 |
| S12   | 2    | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/436.ccls. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2002/10/28 15:14 |

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| S13 | 8  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/478.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:14 |
| S14 | 12 | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/480.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:14 |
| S15 | 1  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 370/481.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:14 |
| S16 | 0  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 455/66.ccls.    | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:14 |
| S17 | 0  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 455/143.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:14 |
| S18 | 0  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 455/137.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:15 |
| S19 | 0  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 455/139.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:15 |
| S20 | 0  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 455/192.1.ccls. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:15 |
| S21 | 0  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 455/273.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:15 |
| S22 | 0  | ((OFDM or (orthogonal near3 frequency)) and (differential with (encod\$4 or modulat\$4))) and 455/275.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:15 |
| S23 | 9  | (OFDM or (orthogonal near3 frequency)) and (TII)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 15:58 |
| S24 | 4  | ("5787123"   "5796785"   "5850605"   "5946293").PN.   | USPAT                                  | OR | ON | 2002/10/28 15:51 |
| S25 | 3  | ("5483686"   "5483690"   "5692016").PN.   | USPAT                                  | OR | ON | 2002/10/28 15:53 |

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| S26 | 2   | TII with (in\$1active or unuse\$1) with carrier\$1  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 14:25 |
| S27 | 2   | TII same (in\$1active or unuse\$1) with carrier\$1  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/28 16:00 |
| S28 | 6   | ((OFDM or (orthogonal near3 frequency)) and (DAB or (satellite\$1 with broadcast\$3))) and TII  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/29 11:52 |
| S29 | 439 | (OFDM or (orthogonal near3 frequency)) and (DAB or (satellite\$1 with broadcast\$3))  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/29 12:01 |
| S30 | 7   | ((OFDM or (orthogonal near3 frequency)) and (DAB or (satellite\$1 with broadcast\$3))) and ((unuse\$1 or in\$1active or idle) with carrier\$1)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 12:38 |
| S31 | 79  | (OFDM or (orthogonal near3 frequency)) and ((unuse\$1 or in\$1active or idle) with (bin\$1 or carrier\$1))  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 14:10 |
| S32 | 31  | (OFDM or (orthogonal near3 frequency)) and (fill\$3 with (bin\$1 or carrier\$1))  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 14:45 |
| S33 | 8   | (OFDM or (orthogonal near3 frequency)) and (pad\$4 with (bin\$1 or carrier\$1))   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 14:34 |
| S34 | 522 | (OFDM or (orthogonal near3 frequency)) and ((insert\$3 or fill\$3 or pad\$4 near3 zero\$1) with (bin\$1 or tone\$1 or frequenc\$3 or channel\$1 or carrier\$1))   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 14:49 |
| S35 | 7   | (OFDM or (orthogonal near3 frequency)) and (((insert\$3 or fill\$3 or pad\$4) near3 zero\$1) same (in\$1active or un\$1active or idle or unuse\$1 or left\$1over or remain\$3 or in\$1operative) same (bin\$1 or tone\$1 or frequenc\$3 or channel\$1 or carrier\$1)) | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 14:54 |

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| S36 | 2    | (OFDM or (orthogonal near3 frequency)) and (((insert\$3 or fill\$3 or pad\$4) with TII) same (in\$1active or un\$1active or idle or unuse\$1 or left\$1over or remain\$3 or in\$1operative) same (bin\$1 or tone\$1 or frequenc\$3 or channel\$1 or carrier\$1))                      | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 14:56 |
| S37 | 3    | (OFDM or (orthogonal near3 frequency)) and (((insert\$3 or fill\$3 or pad\$4) with (id\$1 or identifier\$1)) same (in\$1active or un\$1active or idle or unuse\$1 or left\$1over or remain\$3 or in\$1operative) same (bin\$1 or tone\$1 or frequenc\$3 or channel\$1 or carrier\$1)) | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 16:10 |
| S38 | 177  | (OFDM or (orthogonal near3 frequency)) and (zero\$1 same (in\$1active or un\$1active or idle or unuse\$1 or left\$1over or remain\$3 or in\$1operative) same (bin\$1 or tone\$1 or frequenc\$3 or channel\$1 or carrier\$1))  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 16:13 |
| S39 | 60   | ((OFDM or (orthogonal near3 frequency)) and (zero\$1 same (in\$1active or un\$1active or idle or unuse\$1 or left\$1over or remain\$3 or in\$1operative) same (bin\$1 or tone\$1 or frequenc\$3 or channel\$1 or carrier\$1)))) and "370"/\$.ccls.                                    | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2002/10/30 16:14 |
| S40 | 3165 | ((unuse\$1 or inactive) with carrier\$1)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2003/04/16 08:35 |
| S41 | 65   | ((((unuse\$1 or inactive) with carrier\$1)) and ofdm  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2003/04/16 10:52 |
| S42 | 4    | ((((unuse\$1 or inactive) with carrier\$1) same power) and ofdm   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2003/04/16 10:53 |
| S43 | 2    | TII same ((inactive or unuse\$1) near3 carrier\$1)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2003/09/09 14:15 |
| S44 | 5    | (transmitter with (id or identif\$7)) same ((inactive or unuse\$1) near3 carrier\$1)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2003/09/09 14:14 |

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| S45 | 2   | ((transmitter with (id or identif\$7)) same ((inactive or unuse\$1) near3 carrier\$1)) and ofdm                  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2003/09/09 14:14 |
| S46 | 10  | TII and ofdm   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2003/09/09 14:16 |
| S60 | 233 | (OFDM or (orthogonal near3 frequency)) and ((in\$1active or null or un\$1use\$1) near3 (tone or carrier\$1))     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/03/03 16:22 |
| S61 | 16  | (OFDM or (orthogonal near3 frequency)) and TII   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/03/03 16:22 |
| S62 | 235 | \$2ofdm and ((in\$1active or un\$1use\$1 or null or idle) near3 (carrier or tone or bin))                        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/03/04 11:15 |
| S64 | 502 | \$2ofdm and dab  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/03/04 11:11 |
| S65 | 416 | S64 and carrier  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/03/04 11:12 |
| S66 | 169 | S65 and "370"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/03/04 11:12 |
| S67 | 490 | ((in\$1active or un\$1use\$1 or null or idle) near3 carrier) same (sender or transmit\$4 or source)              | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/03/04 11:16 |
| S68 | 382 | ((orthogonal near3 frequency) or ofdm) and ((un\$1use\$1 or in\$1active or null or idle) with (carrier or tone)) | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/07/20 17:19 |
| S69 | 163 | S68 and "370"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/07/21 16:41 |
| S70 | 382 | ((orthogonal near3 frequency) or ofdm) and ((un\$1use\$1 or in\$1active or null or idle) with (carrier or tone)) | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/07/21 16:57 |

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| S71 | 179 | S70 and "375"/\$.cccls.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/07/22 12:12 |
| S72 | 382 | ((orthogonal near3 frequency) or ofdm) and ((un\$1use\$1 or in\$1active or null or idle) with (carrier or tone))        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/07/22 13:36 |
| S73 | 11  | S72 and tii   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/07/22 12:12 |
| S74 | 3   | ("5726978"   "5818872"   "6411662").PN.   | US-PGPUB;<br>USPAT;<br>USOCR           | OR | ON | 2005/07/22 12:23 |
| S78 | 394 | ((orthogonal near3 frequency) or ofdm) and ((un\$1use\$1 or in\$1active or null or idle) with (carrier or tone or bin)) | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/07/22 13:36 |
| S79 | 61  | S78 and 370/204,205,208,210.cccls.  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2005/07/22 13:40 |